

FIG. 1A

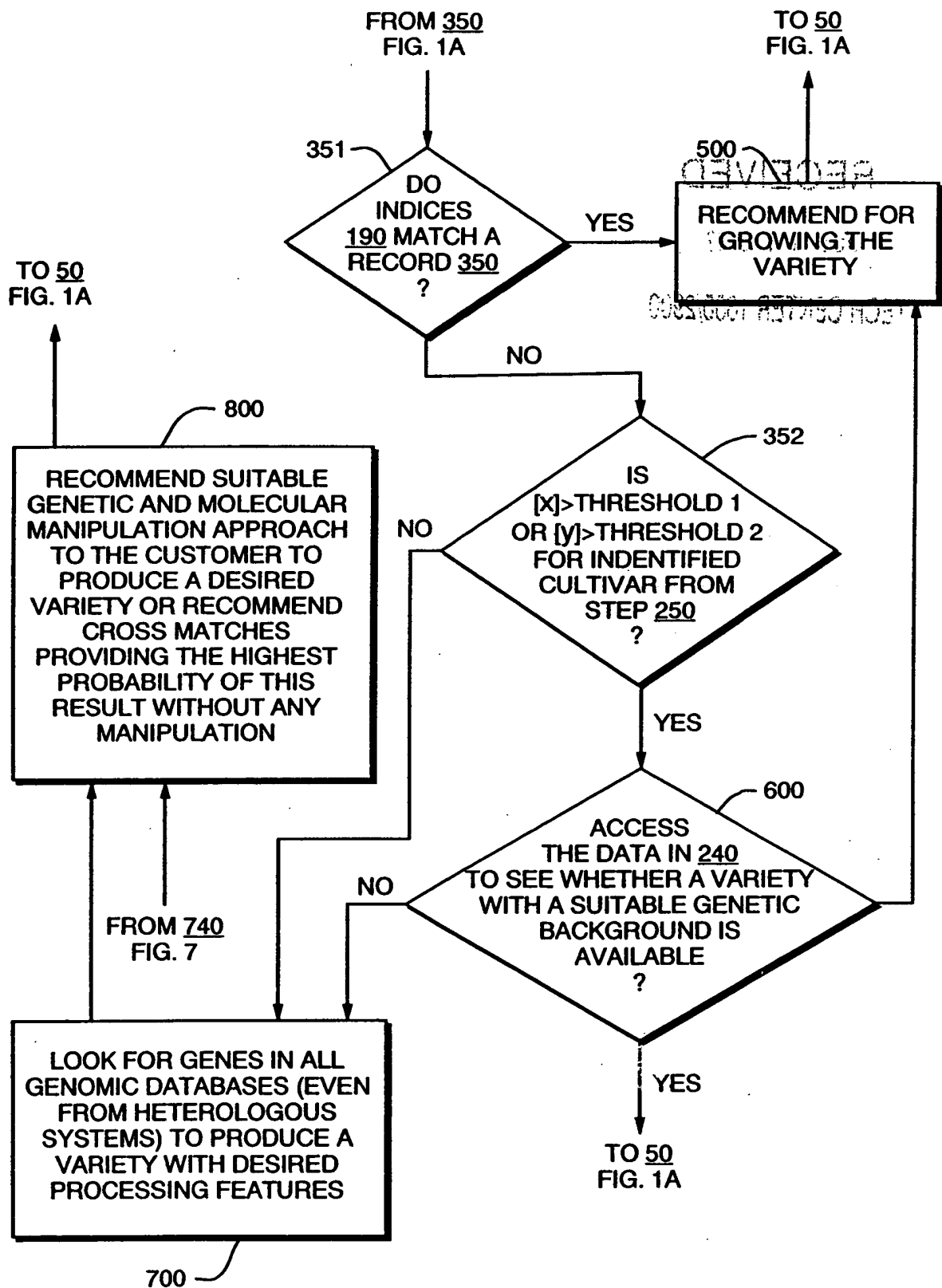


FIG. 1B

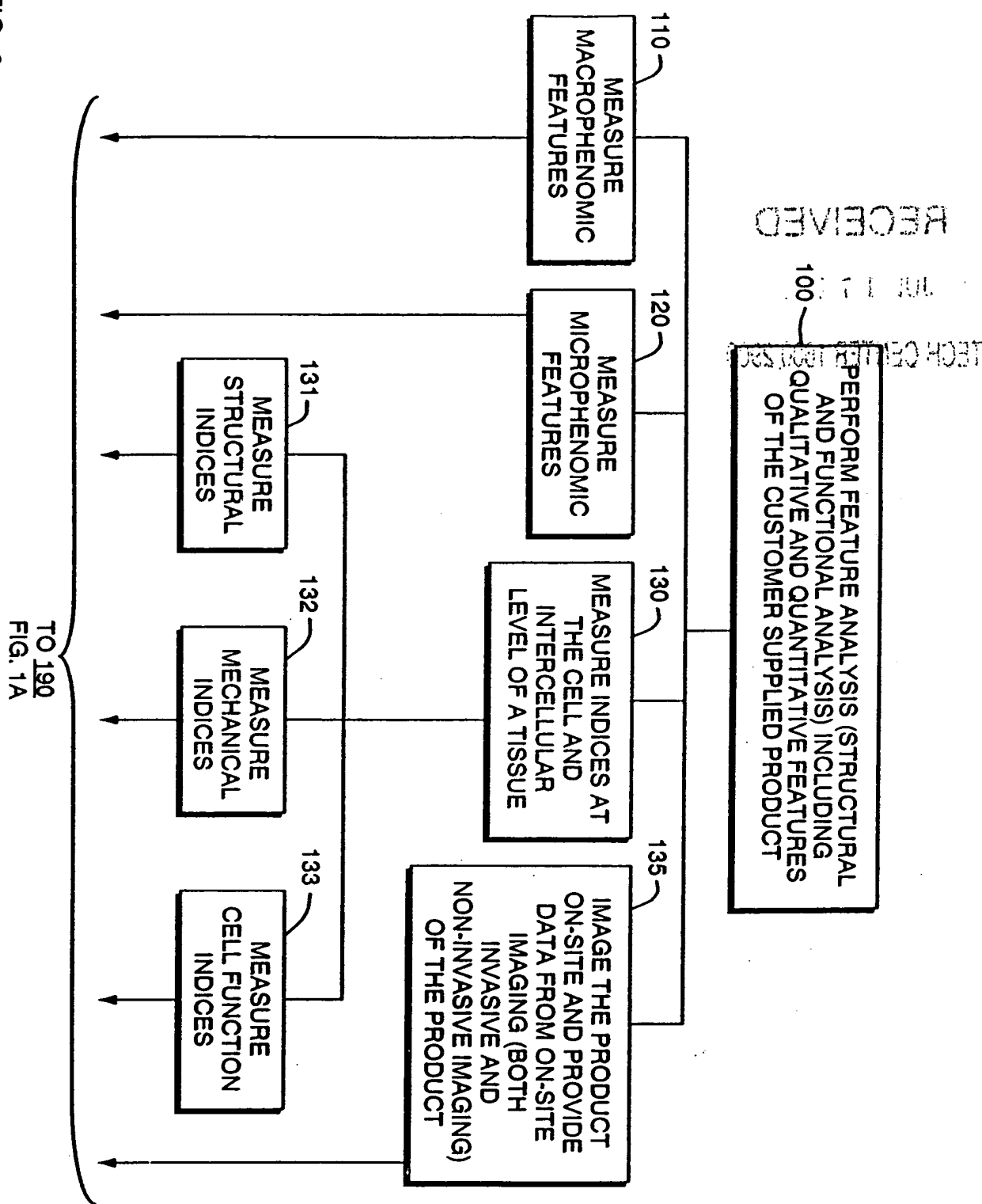


FIG. 2

<p>250a →</p> <p>GENETIC INFORMATION CULTIVAR 1 <u>253a</u></p> <hr/> <ul style="list-style-type: none"> • FRUIT SIZE GENE(S) f₁f₂f₃f₄ • β-CAROTENE GENE(S) B₁ • LYCOPENE CONTENT GENE(S) hp₁ • FRUIT SUGAR GENE(S) s₁ 	<p>251a →</p> <p>GENETIC INFORMATION CULTIVAR 1 <u>254a</u></p> <hr/> <ul style="list-style-type: none"> • FRUIT SIZE GENE(S) f₁f₂f₃f₄ • β-CAROTENE GENE(S) B₁ • LYCOPENE CONTENT GENE(S) hp₁ • FRUIT SUGAR GENE(S) s₁
<p>GROWTH CONDITIONS INFORMATION SET 1 <u>240a</u></p> <hr/> <ul style="list-style-type: none"> • DAY TEMPERATURE 15-20°C • SOIL FERTILITY 6000 (kg NITROGEN/HA) • SOIL MOISTURE 20% 	<p>GROWTH CONDITIONS INFORMATION SET 2 <u>241a</u></p> <hr/> <ul style="list-style-type: none"> • DAY TEMPERATURE 23-25°C • SOIL FERTILITY 4000 (kg NITROGEN/HA) • SOIL MOISTURE 30%
<p>PRODUCT FEATURE RANGE SET 1 <u>256a</u></p> <hr/> <ul style="list-style-type: none"> • FRUIT SIZE 50-60mm • β-CAROTENE 8-10ppm • LYCOPENE 90-100ppm • TOTAL FRUIT SUGARS 65-70% 	<p>PRODUCT FEATURE RANGE SET 2 <u>257a</u></p> <hr/> <ul style="list-style-type: none"> • FRUIT SIZE 70-80mm • β-CAROTENE 4-6ppm • LYCOPENE 70-80ppm • TOTAL FRUIT SUGARS 65-70%

TO FIG. 3B

FIG. 3A

<p>252a</p> <p>GENETIC INFORMATION CULTIVAR 1 <u>255a</u></p> <ul style="list-style-type: none"> • FRUIT SIZE GENE(S) f₁f₂f₃f₄ • β-CAROTENE GENE(S) B₁ • LYCOPENE CONTENT GENE(S) hp₁ • FRUIT SUGAR GENE(S) s₁ 	<p>250b</p> <p>GENETIC INFORMATION CULTIVAR 2 <u>253b</u></p> <ul style="list-style-type: none"> • FRUIT SIZE GENE(S) f₁f₂ • β-CAROTENE GENE(S) B₁B₂ • LYCOPENE CONTENT GENE(S) hp₁hp₂ • FRUIT SUGAR GENE(S) s₁s₂
<p>GROWTH CONDITIONS INFORMATION SET 3 <u>242a</u></p> <ul style="list-style-type: none"> • DAY TEMPERATURE 27-30°C • SOIL FERTILITY 2000 (kg NITROGEN/HA) • SOIL MOISTURE 50% 	<p>GROWTH CONDITIONS INFORMATION SET 1 <u>240b</u></p> <ul style="list-style-type: none"> • DAY TEMPERATURE 15-20°C • SOIL FERTILITY 6000 (kg NITROGEN/HA) • SOIL MOISTURE 20%
<p>PRODUCT FEATURE RANGE SET 1 <u>258a</u></p> <ul style="list-style-type: none"> • FRUIT SIZE 90-100mm • β-CAROTENE 1-2ppm • LYCOPENE 55-65ppm • TOTAL FRUIT SUGARS 65-70% 	<p>PRODUCT FEATURE RANGE SET 1 <u>256b</u></p> <ul style="list-style-type: none"> • FRUIT SIZE 55-60mm • β-CAROTENE 9-10ppm • LYCOPENE 95-100ppm • TOTAL FRUIT SUGARS 65-70%

FROM FIG. 3A

TO FIG. 3C

FIG. 3B

251b		252b	
	<p>GENETIC INFORMATION CULTIVAR 2 <u>254b</u></p> <ul style="list-style-type: none"> • FRUIT SIZE GENE(S) f_1f_2 • β-CAROTENE GENE(S) B_1B_2 • LYCOPENE CONTENT GENE(S) hp_1hp_2 • FRUIT SUGAR GENE(S) s_1s_2 	<p>GENETIC INFORMATION CULTIVAR 2 <u>255b</u></p> <ul style="list-style-type: none"> • FRUIT SIZE GENE(S) f_1f_2 • β-CAROTENE GENE(S) B_1B_2 • LYCOPENE CONTENT GENE(S) hp_1hp_2 • FRUIT SUGAR GENE(S) s_1s_2 	
	<p>GROWTH CONDITIONS INFORMATION SET 2 <u>241b</u></p> <ul style="list-style-type: none"> • DAY TEMPERATURE 23-25°C • SOIL FERTILITY 4000 (kg NITROGEN/HA) • SOIL MOISTURE 30% 	<p>GROWTH CONDITIONS INFORMATION SET 3 <u>242b</u></p> <ul style="list-style-type: none"> • DAY TEMPERATURE 27-30°C • SOIL FERTILITY 2000 (kg NITROGEN/HA) • SOIL MOISTURE 50% 	
	<p>PRODUCT FEATURE RANGE SET 2 <u>257b</u></p> <ul style="list-style-type: none"> • FRUIT SIZE 75-80mm • β-CAROTENE 5-6ppm • LYCOPENE 75-80ppm • TOTAL FRUIT SUGARS 65-70% 	<p>PRODUCT FEATURE RANGE SET 1 <u>258b</u></p> <ul style="list-style-type: none"> • FRUIT SIZE 20-30mm • β-CAROTENE 0.1-0.3ppm • LYCOPENE 20-25ppm • TOTAL FRUIT SUGARS 65-70% 	
FROM FIG. 3B		TO FIG. 3D	

FIG. 3C

<p>250X ↗</p> <p>GENETIC INFORMATION CULTIVAR X <u>253X</u></p> <hr/> <ul style="list-style-type: none"> • FRUIT SIZE GENE(S) f₁ • β-CAROTENE GENE(S) B₁B₂B₃B₄ • LYCOPENE CONTENT GENE(S) hp₁hp₂hp₃hp₄ • FRUIT SUGAR GENE(S) s₁s₂s₃s₄ 	<p>251X ↗</p> <p>GENETIC INFORMATION CULTIVAR X <u>254X</u></p> <hr/> <ul style="list-style-type: none"> • FRUIT SIZE GENE(S) f₁ • β-CAROTENE GENE(S) B₁B₂B₃B₄ • LYCOPENE CONTENT GENE(S) hp₁hp₂hp₃hp₄ • FRUIT SUGAR GENE(S) s₁s₂s₃s₄
<p>GROWTH CONDITIONS INFORMATION SET 1 <u>240X</u></p> <hr/> <ul style="list-style-type: none"> • DAY TEMPERATURE 5-20°C • SOIL FERTILITY 6000 (kg NITROGEN/HA) • SOIL MOISTURE 20% 	<p>GROWTH CONDITIONS INFORMATION SET 2 <u>241X</u></p> <hr/> <ul style="list-style-type: none"> • DAY TEMPERATURE 23-25°C • SOIL FERTILITY 4000 (kg NITROGEN/HA) • SOIL MOISTURE 30%
<p>PRODUCT FEATURE RANGE SET 1 <u>256X</u></p> <hr/> <ul style="list-style-type: none"> • FRUIT SIZE 50-60mm • β-CAROTENE 6-8ppm • LYCOPENE 75-85ppm • TOTAL FRUIT SUGARS 50-55% 	<p>PRODUCT FEATURE RANGE SET 2 <u>257X</u></p> <hr/> <ul style="list-style-type: none"> • FRUIT SIZE 70-80mm • β-CAROTENE 1-2ppm • LYCOPENE 55-65ppm • TOTAL FRUIT SUGARS 55-65%

FROM FIG. 3C

TO FIG. 3E

FIG. 3D

252X

GENETIC INFORMATION CULTIVAR X <u>255X</u>	
<hr/>	
•	FRUIT SIZE GENE(S) f ₁
•	β -CAROTENE GENE(S) B ₁ B ₂ B ₃ B ₄
•	LYCOPENE CONTENT GENE(S) hp ₁ hp ₂ hp ₃ hp ₄
•	FRUIT SUGAR GENE(S) S ₁ S ₂ S ₃ S ₄
<hr/>	
GROWTH CONDITIONS INFORMATION SET 3 <u>242X</u>	
<hr/>	
•	DAY TEMPERATURE 27-30°C
•	SOIL FERTILITY 2000 (kg NITROGEN/HA)
•	SOIL MOISTURE 50%
<hr/>	
PRODUCT FEATURE RANGE SET 3 <u>258X</u>	
<hr/>	
•	FRUIT SIZE 90-100mm
•	β -CAROTENE 1-2ppm
•	LYCOPENE 55-65ppm
•	TOTAL FRUIT SUGARS 65-70%

FROM FIG. 3D

FIG. 3E

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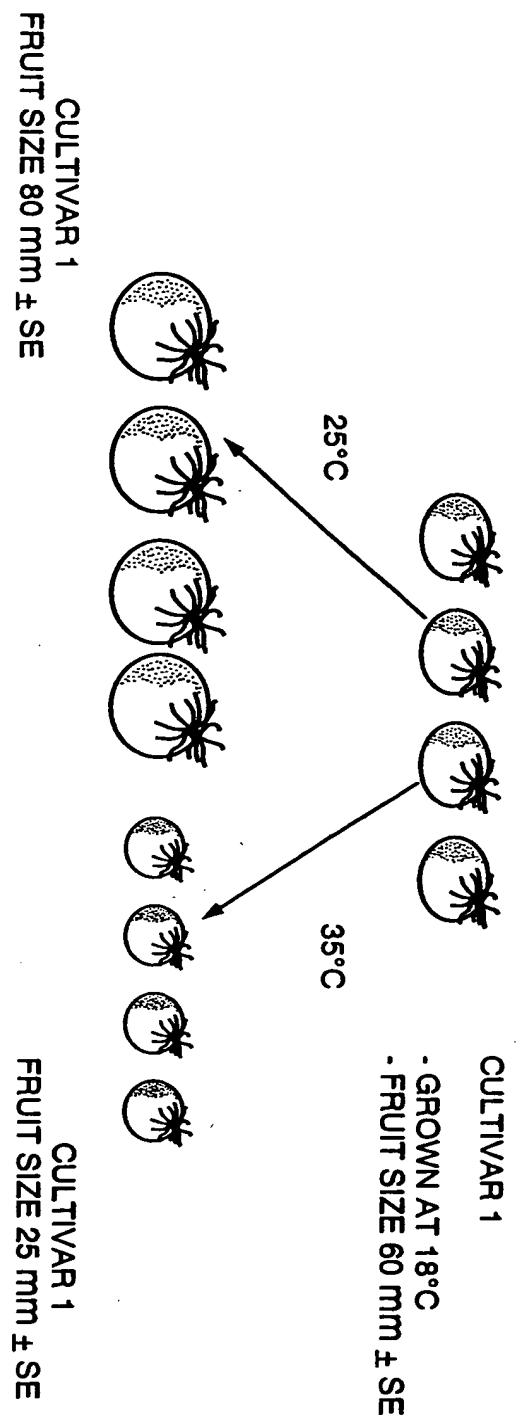


FIG. 4A

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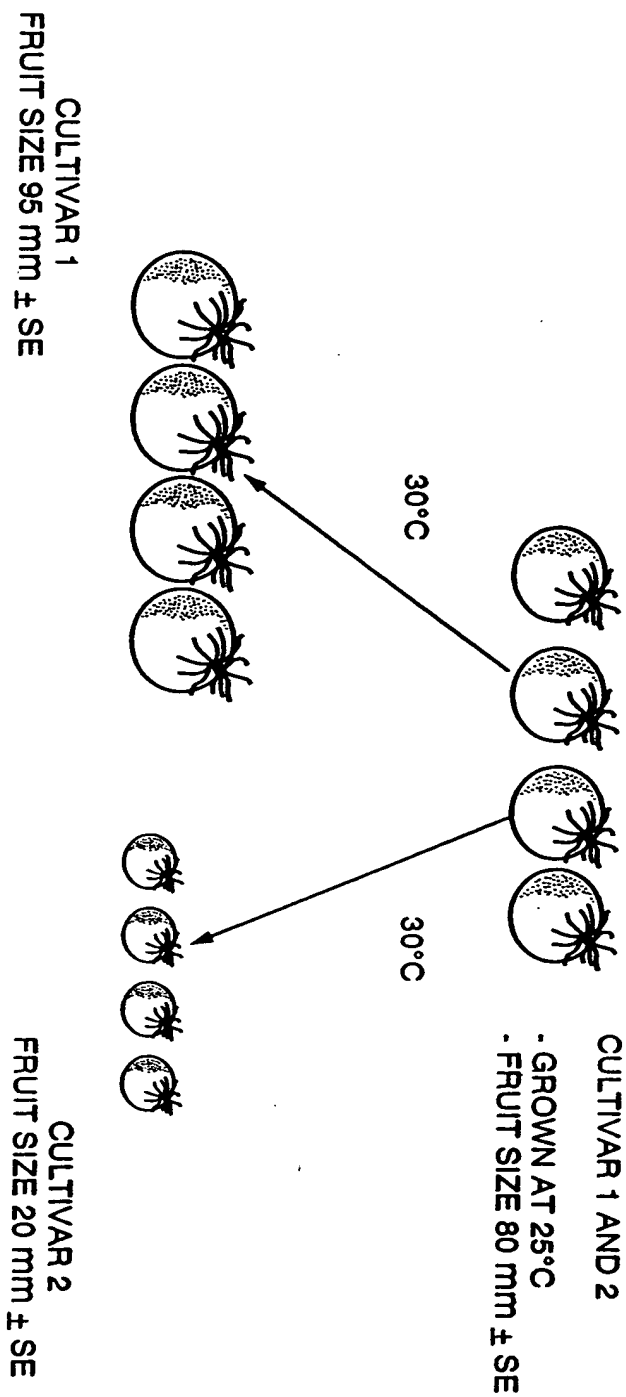


FIG. 4B

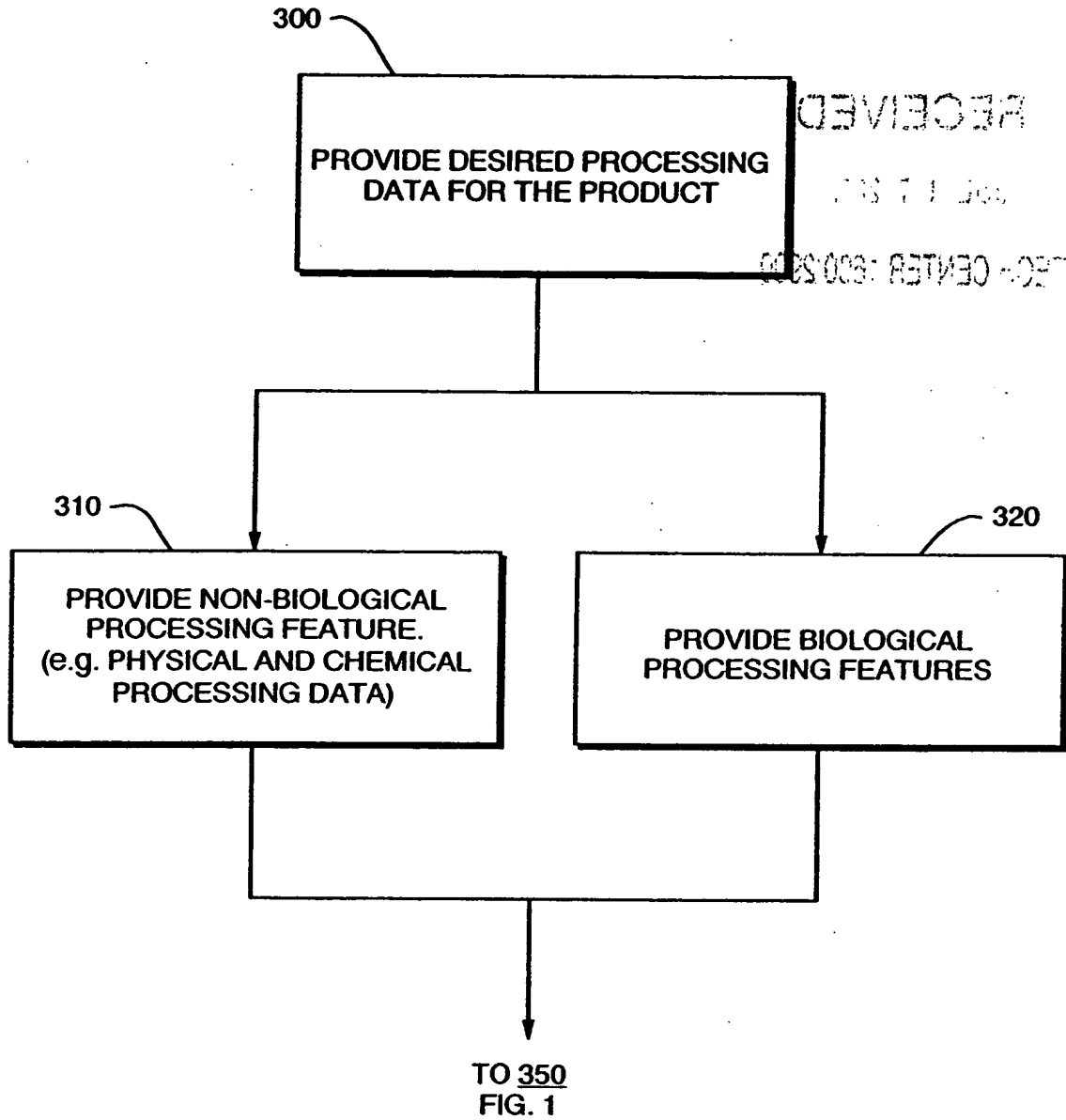


FIG. 5

<p>350a</p> <p>PRODUCT PROCESSING DATA SET 1 352a</p> <hr/> <ul style="list-style-type: none">• MILLING TIME 15 MIN.• HEATING TEMP 90°C	<p>350b</p> <p>PRODUCT PROCESSING DATA SET 2 352b</p> <hr/> <ul style="list-style-type: none">• MILLING TIME 10 MIN.• HEATING TEMP 80°C	<p>350x</p> <p>PRODUCT PROCESSING DATA SET n 352x</p> <hr/> <ul style="list-style-type: none">• MILLING TIME 5 MIN.• HEATING TEMP 70°C
<p>PRODUCT PROCESSING FEATURE RANGE SET 1 354a</p> <hr/> <ul style="list-style-type: none">• LYCOPENE 55-65 ppm• SIZE 90-100 mm• TOTAL FRUIT SUGARS 65-70%• β-CAROTENE CONTENT 1-2 ppm	<p>PRODUCT PROCESSING FEATURE RANGE SET 2 354b</p> <hr/> <ul style="list-style-type: none">• LYCOPENE 70-80 ppm• SIZE 70-80 mm• TOTAL FRUIT SUGARS 65-70%• β-CAROTENE CONTENT 4-6 ppm	<p>PRODUCT PROCESSING FEATURE RANGE SET n 354x</p> <hr/> <ul style="list-style-type: none">• LYCOPENE 90-100 ppm• SIZE 50-60 mm• TOTAL FRUIT SUGARS 65-70%• β-CAROTENE CONTENT 8-10 ppm

FIG. 6

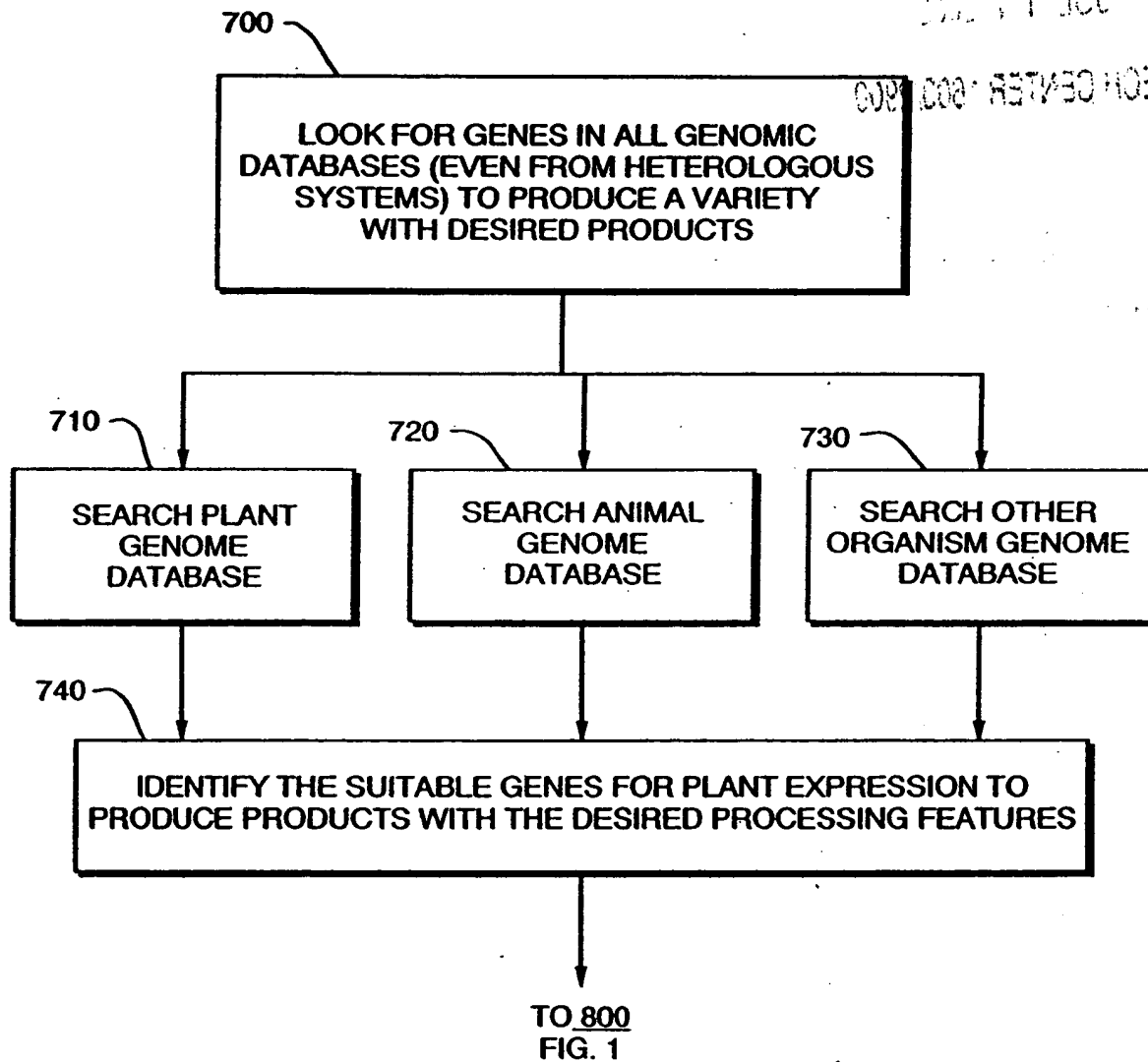


FIG. 7

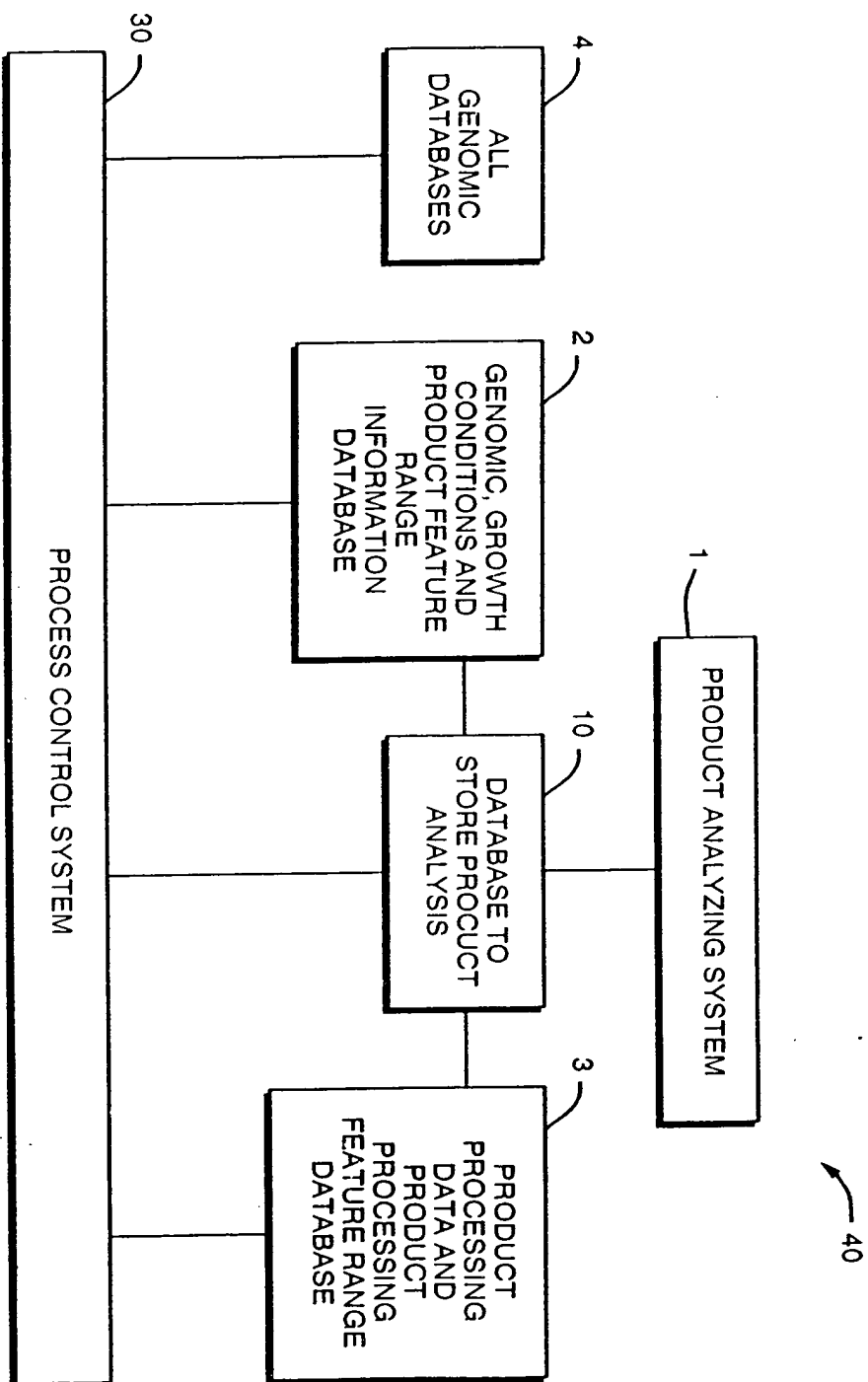


FIG. 8